

U.S. Serial No. 09/301,989

Document No. HRZ0003-US



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

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Suppl. B  
Cofa  
7-31-01

In re the Application of:

Herzel LAOR

Serial No.: 09/301,989

Unit: 3641

Filed: April 29, 1999

Examiner: Mun, K.

For: METHOD AND APPARATUS FOR CONDENSING A BOSE-EINSTEIN  
CONDENSATE OF ATOMS

Box AF  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**AMENDMENT PURSUANT TO 37 CFR 1.114 (REQUEST FOR CONTINUED  
EXAMINATION)**

Responsive to the Office Action dated February 21, 2001, Applicant's representative hereby requests examination of the claims presented below pursuant to Applicant's Request for Continued Examination file herewith.

In the Claims:

✓ Please cancel claims 1-58

Please add claims 59-67 as follows.

59. A process for compressing atoms within a Bose-Einstein condensate comprising:  
providing a Bose-Einstein condensate comprised of multiple  $^4\text{He}$  atoms, wherein at least two of the  $^4\text{He}$  atoms within the Bose-Einstein condensate are co-located;  
focusing a beam having a pulse length of less than  $1 \times 10^{-15}$  second on the Bose-Einstein condensate such that the co-located at least two  $^4\text{He}$  atoms compress to form a  $^8\text{Be}$  isotope.

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